

VIRGINIA CLASS IMPLEMENTATION ITEM UNIQUE IDENTIFICATION (IUID)



**VIRGINIA CLASS ILS Supply
Support
8 April 2010**



VIRGINIA CLASS IUID Implementation Plan

- Original plan issued 6/10/05
 - Block I¹ & II² grandfathered
 - POM³ 8 and POM 10 submittals denied
 - Limited Program Office funding internally
- Revision A Draft
 - ECD: April 2010
 - 28 pages
 - Implementation Strategy
 - Phased approach
 - Block III⁴
 - Legacy⁵
 - Other

¹First phase of construction of VIRGINIA Class Submarines (SSN 774 through SSN 777)

²Second phase of construction of VIRGINIA Class Submarines (SSN 778 through SSN 783)

³Program Objectives Memorandum

⁴Third phase of construction of VIRGINIA Class Submarines (SSN 784 through SSN 791)

⁵Submarines of the VIRGINIA Class that have been delivered to the U. S. Navy



VIRGINIA CLASS IUID Unit Implementation

• Block III Units

- Construction Contract signed 12/22/08
- ITMP¹ to develop detail implementation plan for CFE² components
 - Identify by HSC, and specific items (i.e. SS/L1, FBW FC, DSS-SOC)³
 - Signed 1/8/09
 - 40 % complete as of 3/16/10
 - Evaluating three options for marking
 - » Construction activity – part of product structure
 - » Post construction application
 - » Vendor provide
 - Approximately 11,200 Configuration Level IUID worthy components
 - Final deliverable 6/30/10

• Legacy Units

- MFOM⁴ Large Scale Fleet Demonstration
 - Original candidate (SSN 778) did not participate due to tag out issue
 - New candidate to be determined
 - Requires software upgrade, ECI NTDPS 4060⁵ (Software approved, installation pending)

¹Individual Task Management Plan

²Contractor Furnished Equipment

³Refer to slide 4 of this presentation for examples of how IUID Candidates are selected

⁴Maintenance Figure of Merit

⁵Engineering Change Index (ECI) Non Tactical Data Processing System (NTDPS) 4060 approved 26JUN09



IUID Candidate Selection

Example based on SSN778

HSC	RIC Number	PRID	Equipment Functional Description (EFD)	Part Type	VENDOR PART NUMBER	MAKE FROM PART NUMBER	NOUN NAME	Std Unit Price	SHIPBOARD LOCATION	IUID Candidate
12331CL3	31A040064Y	LPT TRUNK	TRUNK, LOGISTICS PLUG TRUNK ASSEMBLY	DSS	7383858-A2	H5470001-A2	TRUNK, LOGISTICS PLUG TRUNK ASSEMBLY	NA	FC-1P-056-CL	Y
55111DC16	XSUPPORITM	F-060	AHP, EXT CHARGING CONNECTION, HP AIR	HSC	551-6408425 ASSY 96	211080275	ADAPTER ASSY	\$5,381.67	NA	Y
56923CE25	XSUPPORITM	1DC-501-LS-002	SC, SENSITIVE SWITCH, ZERO DEG PLANE POSITION #2	FBW	21EN90-R1	21EN90-R1	SWITCH	\$344.88	FC-1P-022-CL	Y
49911K11	890006030	ESM PARTS	CMD&SURVL MISC PT. ESM PARTS WBS 451	HSC / 89K	H687-0501 89K	89K EWSM	*TRANSDUCER,PRESSURE (41GP21EU6000G1-4A3)	\$6,467.90	NA	Y
55621DH9104	883031562	HE-9104	EXT HYD, SIMPLEX PMP #L DISCHARGE CHECK VALVE	HSC	PLC-11440-12	10-08-1100F	VALVE	NA	FC-3P-060-SB	Y
55621DH9201	883031562	HE-9201	EXT HYD, MAST MANIFOLD #L RETURN CHECK VALVE	HSC	PLC-11440-12	10-08-1100F	VALVE	NA	FC-1P-031-SB	Y
55631SA1	52A010005	HYD ACC-1	SS HYDR, ACCUMULATOR, PORT ER FLOOD CONTROL	HSC / LVL1/SS	556-7106779-B	H7928002-B	ACCUMULATOR	NA	ER-ML-110-SB	Y
15111CL5	31A010250	BRDG PORT DR	BRIDGE, PORT ACCESS DOOR ASSEMBLY	HSC	151-7286408-A2	H4620412-A2	BRIDGE, PORT ACCESS DOOR ASSEMBLY	NA	FC-EX-024-CL	N

PART TYPES

HSC = Hierarchical Structure Code

FBW = Fly-By-Wire

SS = SubSafe

LVL1 = MIC Level 1

89K = System Level APL (* Multiple Parts Associated With Each APL)

DSS-SOC = Deep Submergence Systems Scop Of Certification



VIRGINIA CLASS IUID

Other Activities

- COATS¹
 - Electric Boat Corporation
 - NITSS² database has IUID data elements for approx 8000-9000 items per submarine
 - SPAWAR provided QCTS³ marking cart / equipment
 - Labeling now; 100% compliant
 - Northrop Grumman Shipbuilding, Newport News
 - Second QCTS³ cart soon to arrive.
- SOM⁴
 - Managed by Naval Undersea Warfare Center, Keyport for PMS450
 - Some items meet marking criteria
 - Next Quarterly Inventory Report with IUID
- TE Review
 - > 95% of SEAL Beach provided SPETERL⁵ Test Equipment marked with Unique Item Identifier
- PARM⁶
 - GFE⁷ material currently being marked by Lockheed Martin, Manassas

¹Command & Control System Module Off-Hull Assembly Test Site

²Non-Propulsion Electronic System (NPES) Integration and Test Support System

³Quality Compliance Tool Suite

⁴Sponsor Owned Material

⁵Ship's Portable Electronic Test Equipment Requirement List

⁶Program Acquisition Resource Manager

⁷Government Furnished Equipment



VIRGINIA CLASS IUID

Other Uses

- Concept of marking HAZMAT¹ with an IUID hybrid program
 - Potential Benefits
 - Automate SHIMS² database
 - Pilot at CRIMP³
 - Cradle to grave tracking
 - Status of Initiative
 - Approached NAVSEA Managers for HAZMAT¹ / SHIMS²
 - Approached Submarine Force

¹Hazardous Material

²Submarine Hazardous Material Inventory & Management System

³Consolidated Hazardous Material Reutilization & Inventory Management Program



VIRGINIA CLASS IUID IMPLEMENTATION

- Questions